BRUHAT BENGALURU MAHANAGARA PALIKE
YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAIN AT BALANCE MAIN AND CROSS ROADS AT MANAVARTHI THOTA, CHOWDESHWARI LAYOUT AREAS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

								Estimate Cost Rs.	30.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.		Rate	Amount
1	**Removing B.S. slab** of Drain and stacking (P No 25 / I N 5.32)									
	for Drain	Sqm								
	11th Cross Road		2	45.00	0.60		54.00			
	10th Cross Road		2	48.00	0.60		57.60			
	9th Cross Road		2	45.00	0.60		54.00			
	15th Cross Road		1	115.00	0.60		69.00			
							234.60		65.72	**15417.91**
	Basic Rate	62.00								
	Area Weightage @ 6%	3.72								
	Total	**65.72**								
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)									
	Desilting for Drain	Cum								
	11th Cross Road		2	50.00	0.60	0.60	36.00			
	10th Cross Road		2	52.00	0.60	0.65	40.56			
	9th Cross Road		2	50.00	0.60	0.60	36.00			
	15th Cross Road		1	115.00	0.60	0.65	44.85			
							157.41		86.92	**13682.08**
	Basic Rate	82.00								
	Area Weightage @ 6%	4.92								
	Total	**86.92**								
3	KSRB 2-2.1 **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)									
		Cum								
	Manavarthi Thota Cross Road		1	72.50	0.90	1.00	65.25			
							65.25		200.34	**13072.19**
	Basic Rate	189.00								
	Area Weightage @ 6%	11.34								
	Total	200.34								
4	KSRRB M200-24.- dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces no exceeding 0.02 Cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials separately complete as per specifications. MORTH specifications. No. 202, (P.No. 138/ Item No. 18.47)									
		Cum								
	Manavarthi Thota Cross Road		1	90.00	2.80	0.15	37.80			
	11th Cross Road		1	49.00	3.80	0.15	27.93			
	10th Cross Road		1	50.00	3.30	0.15	24.75			
	9th Cross Road		1	49.00	3.30	0.15	24.26			
	15th Cross Road		1	120.00	3.00	0.15	54.00			
							168.74		827.86	**139688.96**
	Basic Rate	781.00								
	Area Weightage @ 6%	46.86								
	Total	**827.86**								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
5	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
		Cum							
	Manavarthi Thota Cross Road		1	90.00	2.80	0.15	37.80		
	11th Cross Road		1	49.00	3.80	0.15	27.93		
	10th Cross Road		1	50.00	3.30	0.15	24.75		
	9th Cross Road		1	49.00	3.30	0.15	24.26		
	15th Cross Road		1	120.00	3.00	0.15	54.00		
							168.74	166.42	**28080.88**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
6	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH.-100/ Chapter 1 (Page No.133/ Item No.17.1)								
		Cum							
				Qty Vide Item No.2+3+4+5			**560.13**	100.00	**56013.00**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Total	**100.00**							
7	**Refixing stone slabs** of drains and pointing in C.M (1:3)(P.No.25/I.No.5.33)								
		Sqm							
				80% of Qty Vide Item No.1			**187.68**	80.56	**15119.50**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
8	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for Drain covering slab			*20% of Qty Vide Item No.1*			46.92		
			1	72.50	0.75		54.38		
							101.30	2100.00	**212719.50**
	Data Rate	**2100.00**							
9	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	for road	Cum							
	Manavarthi Thota Cross Road		1	90.00	2.80	0.15	37.80		
	11th Cross Road		1	49.00	3.80	0.15	27.93		
	10th Cross Road		1	50.00	3.30	0.15	24.75		
	9th Cross Road		1	49.00	3.30	0.15	24.26		
	15th Cross Road		1	120.00	3.00	0.15	54.00		
	Drain		1	72.50	0.90	0.10	6.53		
							175.26	5159.02	**904169.85**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Total	**5159.02**							
10	KSRB 4.9.2: Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **-do- TMT Bars Fe 500** P.17/It.No.4.46.2								
		tonne	No.of Bars	Width/Lengt	Rmtr	Kg/Rmtr	Total In Kg		
	12mm dia main bar spacing at 150mm c/c	1	483	1.95	941.85	0.888	836.36		
	10mm dia dist bar spacing at 150mm c/c	1	13	72.50	942.50	0.617	581.52		
						in Kg	1417.89		
						in Qtl	14.1789		
						In tonne	**1.4179**	74915.50	**106221.59**
	Basic Rate	70675.00							
	Area Weightage @ 6%	4240.50							
	Total	**74915.50**							
11	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200 -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59)								
		Cum							
	bed		1	72.50	0.90	0.15	9.79		
	Side wall		2	72.50	0.15	0.60	13.05		
							22.84	11032.48	**251954.26**
	Basic Rate	10408.00							
	Area Weightage @ 6%	624.48							
	Total	**11032.48**							
12	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
	for road	Cum							
	Manavarthi Thota Cross Road		1	90.00	2.80	0.125	31.50		
	11th Cross Road		1	49.00	3.80	0.125	23.28		
	10th Cross Road		1	50.00	3.30	0.125	20.63		
	9th Cross Road		1	49.00	3.30	0.125	20.21		
	15th Cross Road		1	120.00	3.00	0.125	45.00		
							140.61	6231.74	**876260.54**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
13	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	for road	Sqm							
	Manavarthi Thota Cross Road		1	90.00	2.80		252.00		
			1	49.00	3.80		186.20		
			1	50.00	3.30		165.00		
			1	49.00	3.30		161.70		
			1	120.00	3.00		360.00		
							1124.90	95.40	**107315.46**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
10	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc ,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification (P.178/ I.22.8)								
	for road	m			2.80		28.00		
	Manavarthi Thota Cross Roads		10	2.50			25.00		
			12	4.50	3.80		54.00	45.60	
			4	4.00	3.30		16.00	13.20	
			4 (8)	3.00	3.30		24.00	13.20	
							119.00	121.90	14506.10
							100.00		12190.00
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	121.90							
							Sub-Total Amount	2751905	2752079.00
11	9% for KRIDL Charges							247671	247687.00
12	Miscellaneous and unforeseen charges	LS						423	234.00
							Grand Total Amount		3000000.00

(Rupees Thirty Lakhs Only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle
3) The provisions were made in this estimate are necessary and adequate
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

Administrative Approval
Accorded For 30.00 lakh Rs.
Head of A/C P3172
CER NO : 241 Dt:. 31/03/17

TA CE (YNK)

Technical Sanction
Accorded For 30.00 lakh Rs
Head of A/C P3172
CER NO : 214 Dt:. 31/03/17

TA CE (YNK)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAIN AT BALANCE MAIN AND CROSS ROADS AT MANAVARTHI THOTA, CHOWDESHWARI LAYOUT AREAS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

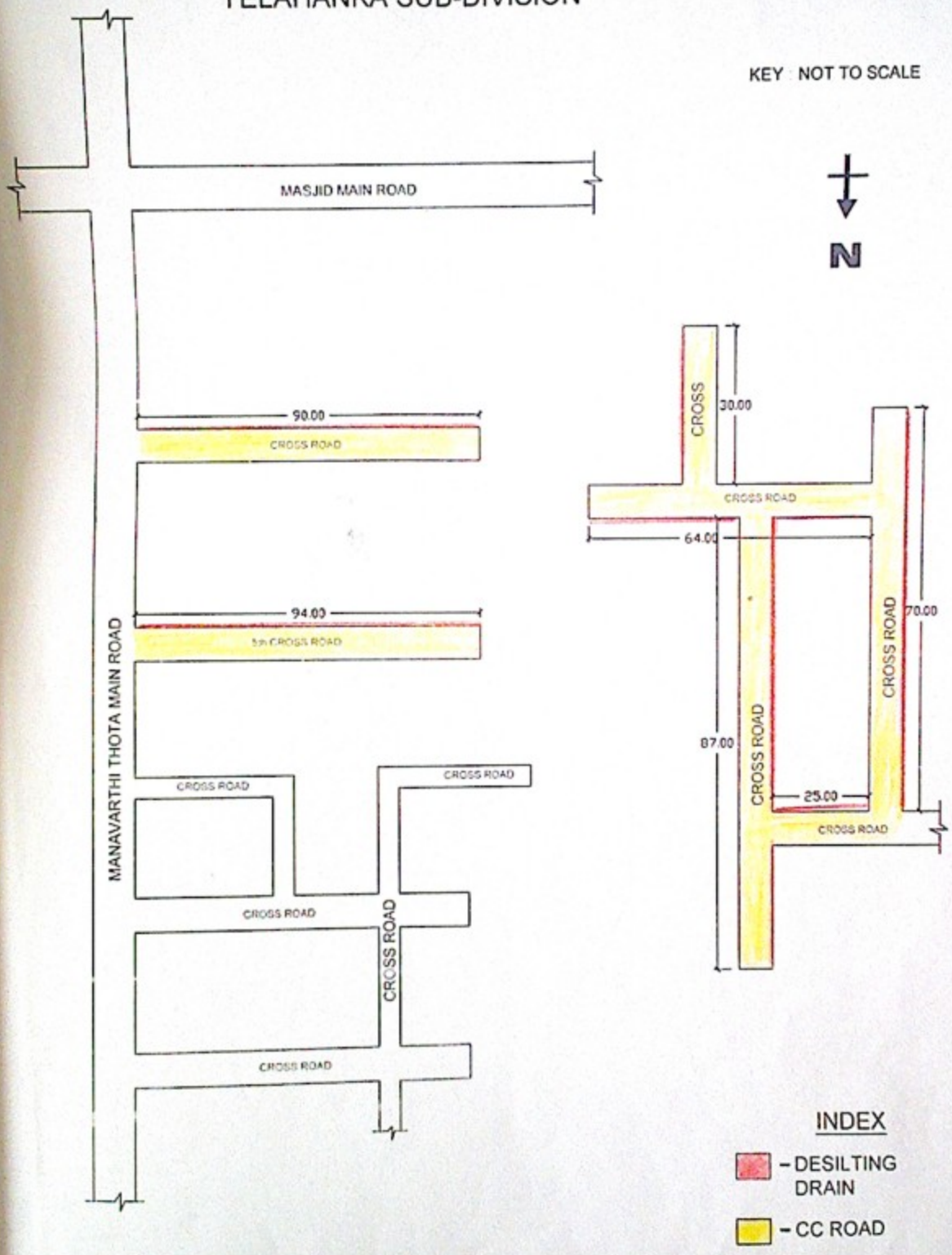
TYPICAL CROSS SECTION OF CC ROAD

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAIN AT BALANCE MAIN AND CROSS ROADS AT MANAVARTHI THOTA, CHOWDESHWARI LAYOUT AREAS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P